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Glaucoma is a major cause of irreversible blindness in the world. The prevalence of glaucomatous loss in vision will continue to grow as our populations age. Ocular hypertension is a major risk factor for the development of glaucoma and current glaucoma...

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PURPOSE: To characterize the glucocorticoid responsiveness of the glaucoma gene MYOC (myocilin/TIGR) in cultured human trabecular meshwork (TM) cells. METHODS: MYOC expression in two independently derived human TM cell lines was quantified by Western...

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AL-3037A (Sodium ferri ethylenediaminetetraacetate), a novel compound shown to stimulate the degradation of glycosaminoglycans, was evaluated for its effects on aqueous humor outflow and intraocular pressure (IOP) in four experimental models. Its effect...

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- ☐ 4. [Glucocorticoid induction of the glaucoma gene MYOC in human and monkey trabecular meshwork cells and tissues.](#)

A F Clark / H T Steely / J E Dickerson / S English-Wright / K Stropki / M D McCartney / N Jacobson / (...) / E M Stone, *Invest Ophthalmol Vis Sci*, Jul 2001

PURPOSE. To examine the intracellular and extracellular expression of myocilin in the human and primate trabecular meshwork (TM) in the presence and absence of glucocorticoids. METHODS. Myocilin expression was examined in cultured human TM cells by...

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- ☐ 5. [Expression of the glaucoma gene myocilin \(MYOC\) in the human optic nerve head.](#)

A F Clark / K Kawase / S English-Wright / D Lane / H T Steely / T Yamamoto / Y Kitazawa / (...) / E M Stone, *FASEB J*, May 2001

Astrocytes; Blotting, Western; Cells, Cultured; Electrophoresis, Gel, Two-Dimensional; Eye Proteins; Fluorescent Antibody Technique; Gene Expression; Glaucoma; Glycoproteins; Humans; Intraocular Pressure; Mutation; Optic Disk; RNA, Messenger

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- ☐ 6. [Optimal procedure for extracting RNA from human ocular tissues and expression profiling of the congenital glaucoma gene...](#)

W H Wang / L G McNatt / A R Shepard / N Jacobson / D Y Nishimura / E M Stone / V C Sheffield / A F Clark, *Mol Vis*, Apr 2001

PURPOSE: To develop methods for obtaining high quality RNA from human donor eyes and to determine the expression profile of the congenital glaucoma gene FOXC1 in human ocular tissues. METHODS: To obtain high quality RNA from donor eyes, several...

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- ☐ 7. [Non-secretion of mutant proteins of the glaucoma gene myocilin in cultured trabecular meshwork cells and in aqueous humor.](#)

N Jacobson / M Andrews / A R Shepard / D Nishimura / C Searby / J H Fingert / G Hageman / (...) / V C Sheffield, *Hum Mol Genet*, Jan 2001

Until recently, very little was known about the molecular mechanisms responsible for the development of glaucoma, a leading cause of blindness worldwide. Mutations in the glaucoma gene myocilin (MYOC, GLC1A) are associated with elevated intraocular...

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- ☐ 8. [Human ocular perfusion organ culture: a versatile ex vivo model for](#)

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glaucoma research.

I H Pang / M D McCartney / H T Steely / A F Clark, *J Glaucoma*, Dec 2000

Aqueous Humor; Eye Proteins; Glaucoma; Humans; Models, Biological; Ocular Hypertension; Ophthalmic Solutions; Organ Culture Techniques; Perfusion; Research; Trabecular Meshwork

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- ☐ 9. The use of proteomics in ophthalmic research.

H T Steely / A F Clark, *Pharmacogenomics*, Aug 2000

The goal of molecular ophthalmology is the early detection and therapeutic treatment of eye disease. Genomic technologies have profoundly enhanced the discovery of ocular disease candidate genes. Proteomics, the protein cognate of genomic technology,...

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- ☐ 10. The similarity of protein expression in trabecular meshwork and lamina cribrosa: implications for glaucoma.

H T Steely / S L English-Wright / A F Clark, *Exp Eye Res*, Jan 2000

The purpose of the present investigation was to compare protein expression in various ocular cells and tissues including the human trabecular meshwork (TM) and the lamina cribrosa (LC). To conduct the comparisons, we primarily utilized autofluorography...

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- ☐ 11. Age-related permeability changes in rabbit corneas.

T L Ke / A F Clark / R W Gracy, *J Ocul Pharmacol Ther*, Dec 1999

The present study was designed to determine whether the corneal penetration of test compounds is altered in aging. Experiments were carried out by means of passive transport under steady-state conditions using in vitro diffusion cells. Permeabilities of...

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- ☐ 12. Angiostatic activity of steroids in the chick embryo CAM and rabbit cornea models of neovascularization.

L G McNatt / L Weimer / J Yanni / A F Clark, *J Ocul Pharmacol Ther*, Oct 1999

Ocular neovascular diseases represent a major cause of blindness in the world. Angiostatic steroids are a unique class of compounds which inhibit the formation of new blood vessels in various models, including ocular models of angiogenesis. In search of...

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- ☐ 13. Inhibition of intraocular tumor growth by topical application of the angiostatic steroid anecortave acetate.
A F Clark / J Mellon / X Y Li / D Ma / H Leher / R Apte / H Alizadeh / (...) / J Y Niederkorn, *Invest Ophthalmol Vis Sci*, Aug 1999
PURPOSE: This study examined the effect of an angiostatic agent on the growth of a highly vascularized intraocular tumor. METHODS: A murine uveal melanoma cell line (99E1) was transplanted intracamerally into athymic nude BALB/c mice. Mice were treated...

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- ☐ 14. New discoveries on the roles of matrix metalloproteinases in ocular cell biology and pathology.
A F Clark, *Invest Ophthalmol Vis Sci*, Dec 1998
Animals; Biology; Eye Diseases; Humans; Metalloendopeptidases; Ocular Physiology

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- ☐ 15. The effect of dexamethasone on integrin and laminin expression in cultured human trabecular meshwork cells.
J E Dickerson / H T Steely / S L English-Wright / A F Clark, *Exp Eye Res*, Jun 1998
Glucocorticoid treatment in vivo can produce a glaucoma similar in many ways to POAG. Treatment of trabecular meshwork cells in culture with dexamethasone allows the study of biochemical aspects of this disease process. The effects of dexamethasone on...

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- ☐ 16. AL-3789: a novel ophthalmic angiostatic steroid.
A F Clark, *Expert Opin Investig Drugs*, Dec 1997
Ocular neovascular diseases are a leading cause of blindness in the world. Research is beginning to unravel the complex mechanisms involved in the pathogenesis of ocular neovascular diseases, but currently there are very few methods for the effective...

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- ☐ 17. Steroid-induced cataract: new perspective from in vitro and lens culture studies.
J E Dickerson / E Dotzel / A F Clark, *Exp Eye Res*, Oct 1997
The prevailing view regarding the mechanism of steroid cataract formation holds that glucocorticoids are covalently bound to lens proteins resulting in destabilization of the protein structure allowing further modification (i.e. oxidation) leading to...

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- ☐ 18. Inhibition of dexamethasone-induced cytoskeletal changes in cultured human trabecular meshwork cells by tetrahydrocortisol.

A F Clark / D Lane / K Wilson / S T Miggins / M D McCartney, *Invest Ophthalmol Vis Sci*, Apr 1996

PURPOSE: To determine the cellular mechanism of action of the intraocular pressure (IOP) lowering steroid tetrahydrocortisol (THF). METHODS: Tetrahydrocortisol was evaluated for glucocorticoid antagonist activity using in vitro and in vivo assays....

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- ☐ 19. Effects of muscarinic agents on cultured human trabecular meshwork cells.

D L Shade / A F Clark / I H Pang, *Exp Eye Res*, Mar 1996

Intracellular calcium measurements were performed in cultured human trabecular meshwork cells preloaded with the cell permeant dye fura 2-AM. Fluctuations in calcium levels were then monitored with microscope-based ratio fluorometry. Carbachol increased...

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- ☐ 20. Dexamethasone-induced ocular hypertension in perfusion-cultured human eyes.

A F Clark / K Wilson / A W de Kater / R R Allingham / M D McCartney, *Invest Ophthalmol Vis Sci*, Feb 1995

PURPOSE. Glucocorticoid administration can lead to the development of ocular hypertension and corticosteroid glaucoma in a subset of the population through a decrease in the aqueous humor outflow facility. The purpose of this study was to determine...

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- ☐ 21. Glucocorticoid-induced formation of cross-linked actin networks in cultured human trabecular meshwork cells.

A F Clark / K Wilson / M D McCartney / S T Miggins / M Kunkle / W Howe, *Invest Ophthalmol Vis Sci*, Jan 1994

PURPOSE. To determine the effects of glucocorticoid treatment on the microfilament structure of cultured human trabecular meshwork cells. Topical or systemic administration of glucocorticoids can lead to the development of ocular hypertension and to the...

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- ☐ 22. Preliminary characterization of a transformed cell strain derived from human trabecular meshwork.

I H Pang / D L Shade / A F Clark / H T Steely / L DeSantis, *Curr Eye Res*, Jan 1994

Cells isolated from the trabecular meshwork (TM) of a male glaucoma patient were transformed by transfection with an origin defective mutant of SV40 virus. Transformation dramatically increased the growth rate of these

cells (designated HTM-3 cells),...

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- ☐ **23. Dexamethasone induced ultrastructural changes in cultured human trabecular meshwork cells.**

K Wilson / M D McCartney / S T Miggins / A F Clark, *Curr Eye Res*, Sep 1993

Glucocorticoid-induced ocular hypertension has been demonstrated in both animals and humans. It is possible that glucocorticoid-induced changes in trabecular meshwork (TM) cells are responsible for this hypertension. In order to elaborate further the...

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- ☐ **24. The effects of dexamethasone on fibronectin expression in cultured human trabecular meshwork cells.**

H T Steely / S L Browder / M B Julian / S T Miggins / K L Wilson / A F Clark, *Invest Ophthalmol Vis Sci*, Jun 1992

Topical administration of glucocorticoids to the eye can lead to the development of ocular hypertension. This increase in intraocular pressure is caused by the heightened resistance to flow of aqueous humor from the eye, presumably at the trabecular...

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- ☐ **25. Angiostatic activity and metabolism of cortisol in the chorioallantoic membrane (CAM) of the chick embryo.**

L G McNatt / D Lane / A F Clark, *J Steroid Biochem Mol Biol*, Aug 1992

There is considerable interest in the discovery of compounds which inhibit angiogenesis dependent (neovascular) diseases. The chick embryo, due to the rapid development of an extensive vascular capillary network in the chorioallantoic membrane (CAM),...

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- ☐ **26. Angiostatic activity and metabolism of cortisol in the chorioallantoic membrane (CAM) of the chick embryo**

McNatt, L.G. / Lane, D. / Clark, A.F., *The Journal of Steroid Biochemistry and Molecular Biology*, Aug 1992

There is considerable interest in the discovery of compounds which inhibit angiogenesis dependent (neovascular) diseases. The chick embryo, due to the rapid development of an extensive vascular capillary network in the chorioallantoic...

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